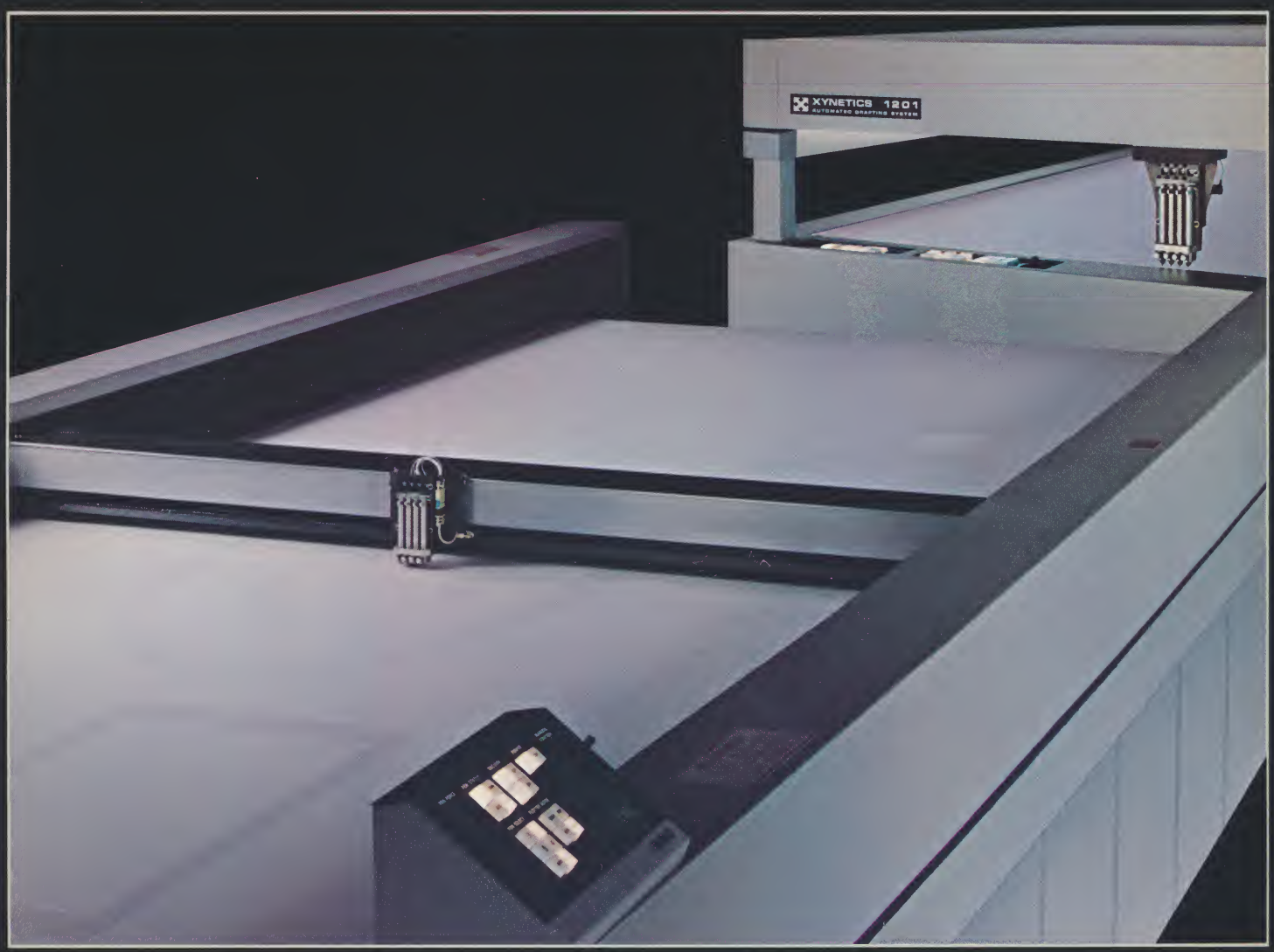
XYNETICS GRAPHICS PLOTTING SYSTEMS

XYNETICS



XYNETICS

The Innovator in the Design and Manufacture of Large-Surface, Flat-Bed Drafting Systems

Xynetics is the leading designer and fabricator of large, flat-bed pen plotter systems in the world. Founded in 1969 to serve the growing demand for automated drafting equipment, the company has maintained its leadership position with technical innovation, manufacturing craftsmanship and service.

Our market place is large and diverse. Xynetics' highly reliable drafting systems are constantly at work throughout the electronics, mapping, automotive and aero-space industries, as well as many government agencies. Our reputation is built on being responsive to the highly technical engineering needs of these industries.

Our products add productivity to all graphics applications. The Model 2600 of Xynetics' three Series 2000 Automated Drafting Systems features an expanded plotting surface for very large drawing requirements. The Series 1000 High-Performance Drafting Systems offers maximum performance and convenience in three cost-efficient configurations. Our controllers are compatible with all drafting tables and can be combined with a number of options and software packages.

TO MAKE THE BEST, WE BUILD-IN THE BEST

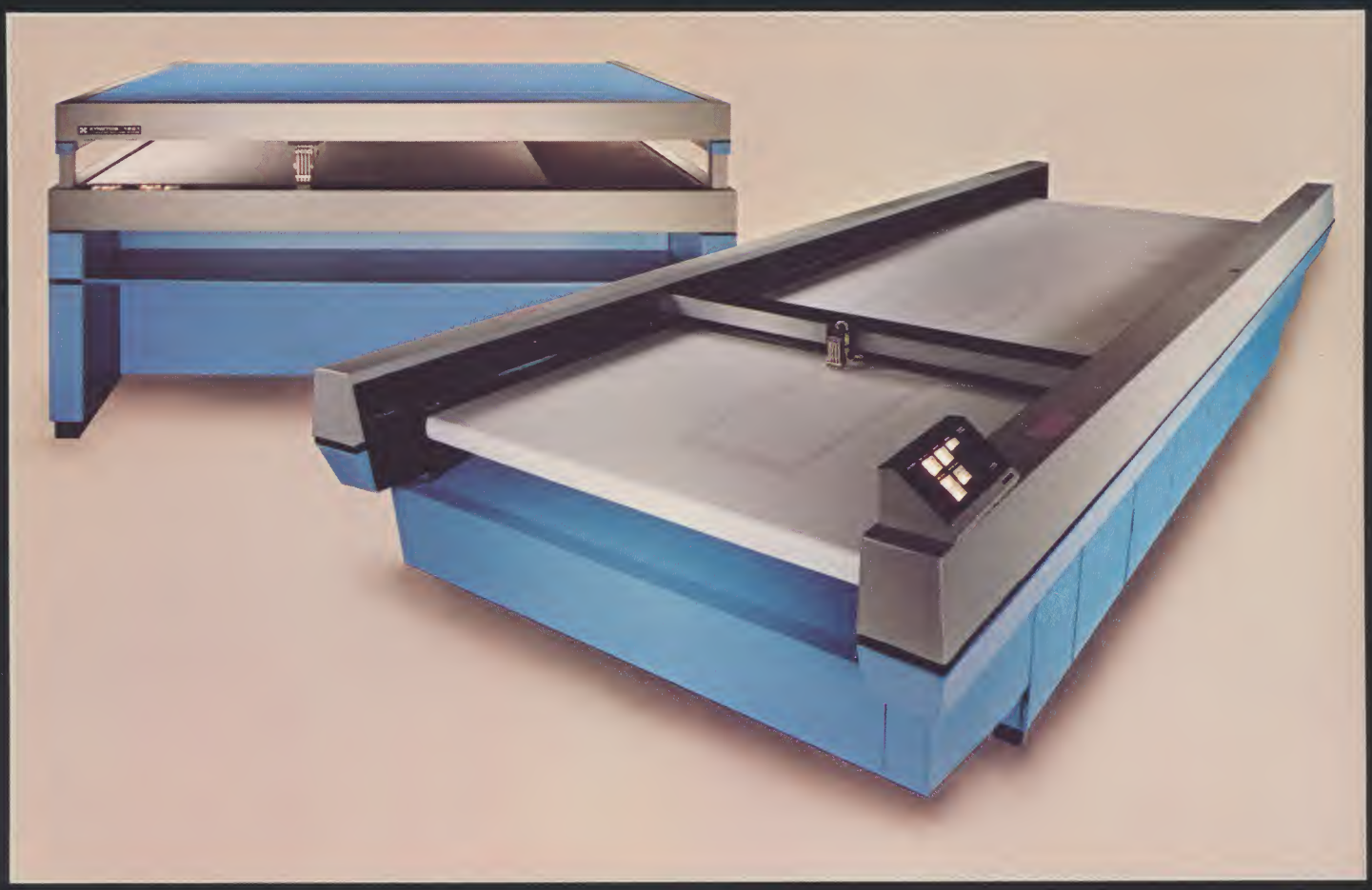
Xynetics is unmatched in technological and manufacturing resources.

Our continuing product refinement meets the demands and challenges of changing industry applications. Xynetics maintains ongoing development programs which are constantly striving to bring you the ultimate in high-performance and cost-effective drafting systems. We are part of a group of companies with mutually supportive services and technologies—Electroglas, Rucker & Kolls and Ultratec—which gives us strong, broad capabilities in a variety of markets.

Whatever your requirements are, now or in the future, Xynetics has a plotting system to match them.

MODEL 1201/ SERIES 1000 (Left)

MODEL 2600/ SERIES 2000 (Right)



CRAFTSMANSHIP IS FOREMOST

Xynetics maintains complete in-house manufacturing capabilities. From material selection to assembly, we maintain step-by-step control over the entire manufacturing process. Our assembly personnel are among the most experienced in the industry and they build each plotting system in a custom craftsmanship tradition. Exacting Quality Control at each point ensures the finest products available. Frequent precision testing assures exacting standards. The high level of craftsmanship which Xynetics demands guarantees that each drafting system is handmade and hand-inspected to meet your productivity requirements.

Obsolescence is never a problem with Xynetics sophisticated plotters. Our systems are designed for low maintenance and ease of installation. Most important, adaptability is foremost. Should you need us, our field response is the most efficient available.

AN EXPANDABLE SYSTEM- AN EFFECTIVE SYSTEM

When you build with care and plan for change, the result is state-of-the-art equipment which is designed for continuing performance and reliability.

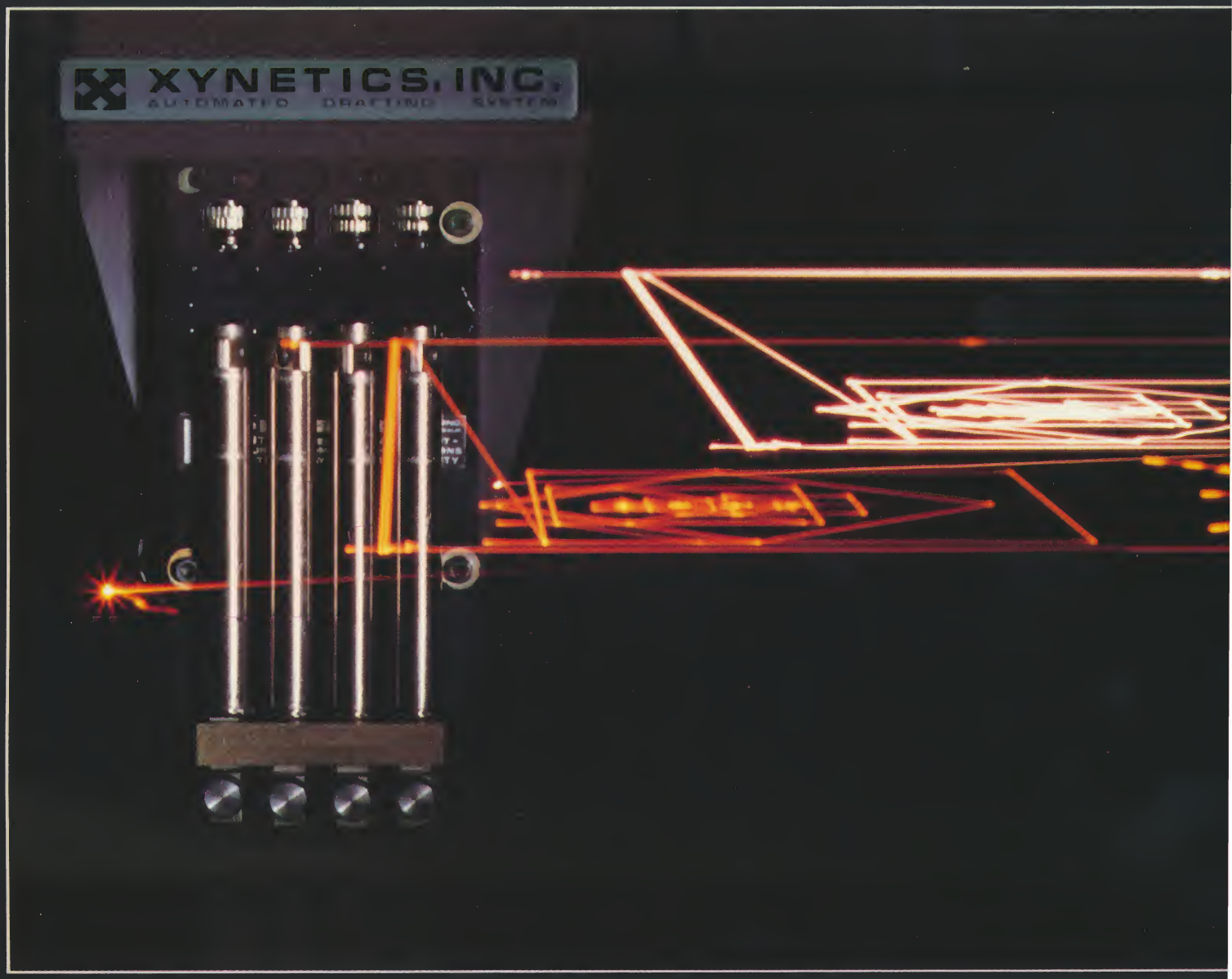
From our patented Xynetics Linear Motor Drive to our On-Line and Off-Line Controllers, Xynetics' high-performance equipment is designed for reliability, versatility and user convenience. And, Xynetics' powerful multi-application software packages, adaptable table sizes with accessories, and configurations offer further ease of operation and growth potential.

FULL SERVICE CONTINUES AFTER DELIVERY

Xynetics' pride in craftsmanship does not stop when you take delivery of your drafting system. Our worldwide network of skilled field engineering personnel ensures the continuing performance of your Xynetics drafting equipment, and are there for service as your needs expand or change in complexity.

C84 ON-LINE CONTROLLER (Left)

C62 OFF-LINE CONTROLLER (Center)



XYNETICS

When You Need a High-Performance Pen Plotting System with Built-in Accuracy, Speed and Adaptability

At the heart of all flat-bed plotter systems is the X-Y positioner. This determines the accuracy, speed and reliability of your drafting equipment. The usual positioner design is a network of gears, wire cables and lead screws which are subject to frequent breakdowns.

Xynetics has a better way. In fact, we patented it.

Our exclusive Linear Motor Drive uses rare earth magnets to eliminate wear and reduce mass while increasing speed, accuracy and reliability. The Xynetics plotting head rides on a frictionless air cushion to minimize down-time and ensure years of high volume, multi-shift operation. As a result, our Series 1000 High-Performance Drafting Systems and our Series 2000 Automated Drafting Systems are capable of precision graphic output of up to 40 inches per second (1m/sec) ball point, *and 25 inches per second (.6m/sec)* liquid ink. *With accuracy of ±.005 inch (.127mm), resolution of .001 inch (.025mm) and repeatability of ±.001 inch (.025mm) over the entire plotting surface, we offer faster throughput than any system with a comparable plotting area.*

FLEXIBILITY NOW - ADAPTABILITY TOMORROW

A full complement of on-line and off-line controllers is offered. Both our C62 Off-Line Controller and C84 On-Line Controller operate in a "look-ahead" mode so that the positioner can plot continuously at high speed without returning to zero velocity. The C62 features a 16-bit word stored programmed processor, magnetic tape drive, slope generator, firmware, interface electronics and stand-alone operator's console. In addition, Xynetics' powerful Fortran level multi-application software system provides all necessary commands for operational ease and throughput. The C84 microprocessor-based controller can be connected to all minicomputer-based systems with standard interfaces.

Standard on both the Series 1000 and 2000 Drafting Systems is the WA40 In-Line Marking System. This holder-actuator unit accepts from one to four work attachments, including liquid ink and ball point pens. Optional scribe tips and strippable film cutters are available.

USER CONVENIENCE - A PRIMARY CONCERN

While building in accuracy and throughput, we never forget that people have to operate our equipment. Even when installed in small areas, all Xynetics plotting systems are designed for comfortable viewing. The controls are located at the left-hand corner of the table so that they can be easily reached whether you are standing or sitting.

XYNETICS Product Summaries

DRAFTING TABLES

SERIES 1000: Effective Plotting Areas

Model 1051	33" x 44" (84cm x 112cm)
Model 1101	43" x 56" (109cm x 142cm)
Model 1201	58" x 87" (148cm x 221cm)

SERIES 2000: Effective Plotting Areas

Model 2000	72" x 120" (183cm x 305cm)
Model 2200	72" x 144" (183cm x 367cm)
Model 2600	72" x 192" (183cm x 488cm)

SERIES 1000/2000

Graphic Output: *Up to 40 inches per second (1m/sec)* ball point, *or 25 inches per second (.6m/sec)* liquid ink *with accelerations up to 3.0 g.*

Accuracy: *Eliminates calibration and maintains a resolution of .001 inch (.025mm). Accuracy of ±.005 inch (.127mm) and repeatability of ±.001 inch (.025mm) respectively over the total drawing area.*

Patented Linear Reluctance Motor: *Reduces mass and eliminates wear while delivering throughput and superb quality output.*

Vacuum Hold-Down System: *Capable of holding all commonly used graphic arts materials.*

Convenient Operation: *Either standing or seated, with all controls located at left corner of table.*

CONTROLLERS

C62 OFF-LINE CONTROLLER

Continuous "Look-Ahead" Mode: *Provides higher throughput.*

16-Bit Word Stored Program Processor: *Includes memory, magnetic tape drive (9-track 800/1600 multi-format), slope generator, interface electronics and stand-alone operator's console.*

Software: *Full range of commands including independent X-Y scaling, acceleration, speed and drawing search. Acceleration parameter gives Series 1000 systems capabilities up to 3g. Expanded symbol set provides both Leroy and stick symbol generation. Keyboard text entry providing direct plotting of typed text is standard. Precision Alignment Option allows precision plot-over of previous plotted drawings.*

C82 OFF-LINE CONTROLLER

Simplified, Low Cost Controller: *Allows system stand-alone independence. Includes a microprocessor stored program controller, multi-format 9-track magnetic tape subsystem, operator's console and software.*

C84 ON-LINE CONTROLLER

Microprocessor Stored Program Controller: *On-line to CAD systems or any host computer graphics system.*

Independent Plotter Tester: *Provides self-diagnostic capability.*

Serial or Parallel Interface: *Provides direct or remote communication capability.*

MULTI-APPLICATION SOFTWARE

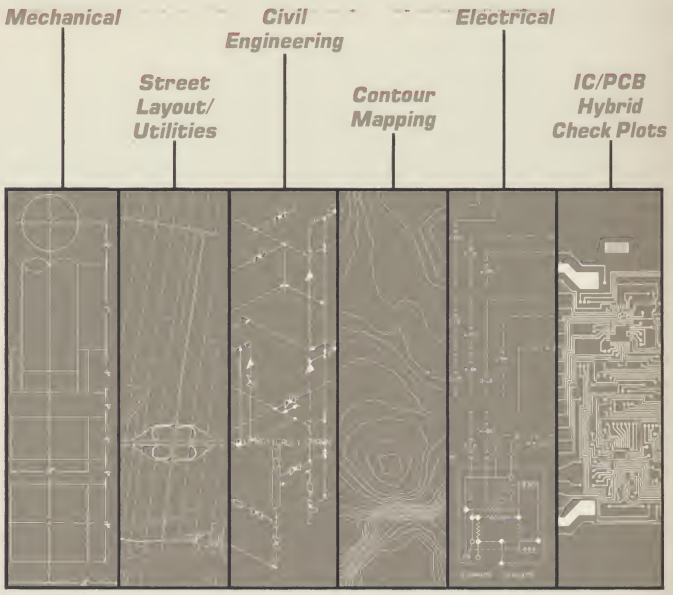
Powerful Fortran/Assembly Language Software System Package: *Set of extensive subroutines available to the user of the host graphics computer system. Serves as an interface, via magnetic tape, between the host system and the Xynetics C62 Off-Line Controller.*

TABLE ATTACHMENTS

Options for Increased Adaptability: *A full line of accessories are available: WA40 In-Line Marking System (precision holder-actuator unit which accepts from one to four different work attachments); WA41 Scribe Kit; WA47 Omnidirectional Film Cutter Kit; TA60 Axis Position Display (LED), TA70 Series Paper Advance Systems (manual, pushbutton or fully automatic); and TA90 Viewer options.*

For detailed data sheets on our Graphics Plotting Systems, or other Xynetics products, write or call Xynetics, Inc., 2901 Coronado Drive, Santa Clara, California 95051, telephone 408/727-6500. Or contact your nearest Xynetics representative listed on the back cover.

SAMPLE PLOTTING APPLICATIONS



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